

JUL 0 1 2013

STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF AIR POLLUTION CONTROL

NOT TO BE USED FOR TITLE V APPLICATIONS



532-0554

9th Floor, L & C Annex 401 Church Street Nashville, TN 37243-1531 Telephone (615)

(615)532-0614 FAX:

PERMIT APPLICATION

PLF	ASE TYPE OR PR	UNT AND SUBMIT	IN DUPLICATE FO	OR EACH EMI	SSION SO	URCE. ATTACH APPRO	PRIATE SO	DURCE	
	SCRIPTION FORM								
7.70	ORGANIZATION' Cingular Wireless PC	'S LEGAL NAME CS, LLC dba AT&T Mo	bility		FOR	APC COMPANYPOINT		71	
2. MAILING ADDRESS (ST/RD/P.O. BOX) 2600 Camino Ramon, Room 3E450Z				/ / / APC	APC LOG/PERMIT NO.	410	•		
San	CITY STATE CA		ZIP CODE 94583	8	PHONE WITH AREA CODE (925) 327-2532			***************************************	
3 . Barb	PRINCIPAL TECH bara Walden, EH&S M	INICAL CONTACT Manager				PHONE WITH AREA COL (925) 327-2532	DE	12	
	SITE ADDRESS (S Raby Hollow Road	ST/RD/HWY)		A CONTRACTOR OF THE PARTY OF TH		COUNTY NAME Roane	2	~	_
Kıng	CITY OR DISTANC	CE TO NEAREST TOW	'N	ZIP CODE 37763		PHONE WITH AREA COL	DE I	3	30 20
5. IDEI GEN	NTIFIES THIS SOUR	CE NO. (NUMBER WI	IICH UNIQUELY	PERMIT REN YES ()	NO (x)		UN 20	E Z
50 k	W diesel-fired emerge	ency generator (design t	ating) equipped with a	ii engine iatee at	0 KW (23 III	T.	5	13	A N
			aung) equipped with a			p).	}	2: 29	ONTROL
50 k	TYPE OF PERMIT CONSTRUCTION (X)	T REQUESTED STARTING DATE	COMPLETION D		PERMIT	EMISSION SOURCE	REFERENC	2. 29 E NUMBE	
	TYPE OF PERMIT	T REQUESTED		ATE LAST NUME	PERMIT BER PERMIT				R .
	TYPE OF PERMIT CONSTRUCTION (X) OPERATING	STARTING DATE October 2013 DATE CONSTRU-	COMPLETION D October 2013	ATE LAST NUME TED LAST NUME	PERMIT SER PERMIT SER	EMISSION SOURCE	REFERENC	E NUMBE	R .
	TYPE OF PERMIT CONSTRUCTION (X) OPERATING () LOCATION TRANSFER	TREQUESTED STARTING DATE October 2013 DATE CONSTRUCTION STARTED TRANSFER DATE	COMPLETION D October 2013	ATE LAST NUME TED LAST NUME LAST	PERMIT SER PERMIT SER	EMISSION SOURCE GEN I EMISSION SOURCE	REFERENC	E NUMBE	R .
	TYPE OF PERMIT CONSTRUCTION (X) OPERATING () LOCATION TRANSFER () ADDRESS OF LAS DESCRIBE CHAN OPERATING PER	TREQUESTED STARTING DATE October 2013 DATE CONSTRUCTION STARTED TRANSFER DATE T LOCATION	COMPLETION D October 2013 DATE COMPLET	ATE LAST NUME ED LAST NUME LAST NUME	PERMIT SER PERMIT SER PERMIT SER	EMISSION SOURCE GEN I EMISSION SOURCE	REFERENC	E NUMBE	R R
7.	TYPE OF PERMIT CONSTRUCTION (X) OPERATING () LOCATION TRANSFER () ADDRESS OF LAS DESCRIBE CHAN OPERATING PER	TREQUESTED STARTING DATE October 2013 DATE CONSTRUCTION STARTED TRANSFER DATE T LOCATION GES THAT HAVE BE	COMPLETION D October 2013 DATE COMPLET	ATE LAST NUME TED LAST NUME LAST NUME S EQUIPMENT	PERMIT BER PERMIT BER PERMIT BER	EMISSION SOURCE GEN I EMISSION SOURCE EMISSION SOURCE	REFERENC	E NUMBE	R R

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PROCESS OR FUEL BURNING SOURCE DESCRIPTION

PLEASE TYPE OR PRINT, SUBMIT IN DUPLICATE AND ATTACH TO THE PERMIT APPLICATION.

APC21(& 24)

						T		COLONARY BOTHER NO.
	ORGANIZATION NAME Cingular Wireless PCS, LLC dba A	T&T Mobilit	У			FOR	AP	°C COMPANY-POINT NO.
2. GEI	EMISSION SOURCE NO. (AS C	ON PERMIT	r APPLICATIO	٧)	SIC CODE 4812	7 / / APC	ΑP	C PERMIT/LOG NO.
3.	DESCRIPTION OF PROCESS OF	FUEL BU	RNING UNIT			<u> </u>	L	
	ergency use generator, GENERAC 55 ited to 500 operating hours per year.	64-0 (SD-05	0). Engine man	ufactured after Apri	l 1, 2006. Rate	d at 50 k¹	W; m	aximum engine output of 70 kW.
4.	NORMAL OPERATION: → Limited to 500 hours/year	HOURS/E N/A	DAY DAYS/ N/A	WEEK	WEEKS/YE N/A	AR	D/ N/	AYS/YEAR A
5.	PERCENT ANNUAL THROUGHPUT: →	1				SEPTNOV. N/A		
6.	TYPE OF PERMIT APPLICATION	N					((THECK BELOW ONE ONLY)
	PROCESS SOURCE: APPLY FOR RIGHT, AND COR	MPLETE LII	NES 7, 8, 13, AN	ND 14).				()
		ATED, APP	LY FOR A SEPA	TS OF COMBUST ARATE PERMIT F ES 7, 8, AND 10 TF	OR EACH SOU			()
	BURNER AND C	ATED, COM OMPLETE A	APLIETE THIS F AN EMISSION I	OF COMBUSTION ORM FOR EACH POINT DESCRIPTE AND COMPLETE I	BOILER OR FU ON FORM (AI)EL, PC 22)		(X)
7.	TYPE OF OPERATION: CONTI	NUOUS,	B/	TCH)	NORMAL I TIME	ВАТСН	N(ORMAL BATCHES/DAY
8.	PROCESS MATERIAL INPUTS	AND	DIAGRAM*	INPUT RATE	S (POUNDS/H	OUR)	1	(FOR APC USE ONLY)
•	IN-PROCESS SOLID FUELS		REFERENCE	DESIGN	ACTU	AL.	1/	SCC CODE
	Α.						1	
	В.						1	
	C.						1/	
D.			· · · · · · · · · · · · · · · · · · ·				//	
**********	E.		.,	<u> </u>			1	
	F.						1/	
	G.						1/	
•		<u>1</u>	'T'/\''' & 1 C'				17	

^{*} A SIMPLE PROCESS FLOW DIAGRAM MUST BE ATTACHED.

BOILER	STACK	TYPE OF FIRING***	RATED BOILER	RATED INPUT	OTHER BOILER RATING
NUMBER	NUMBER**		HORSEPOWER	CAPACITY	(SPECIFY CAPACITY AND UNITS)
		Internal Combustion Engine		(10 ⁶ BTU/HR)	
JEN I	GEN I		93 (engine)	0.57 (engine)	70 kW (engine); 50 kW (generator)
BOILER SERIAL NO.		DATE CONSTRUCTED	DATE OF LAST M	L IODIFICATION (EX	PLAIN IN COMMENTS BELOW).
N/A		N/A	Ditte on English	TOBIL RETTION (EA	

- ** BOILERS WITH A COMMON STACK WILL HAVE THE SAME STACK NUMBER.
 *** CYCLONE, SPREADER (WITH OR WITHOUT REINJECTION), PULVERIZED (WET OR DRY BOTTOM, WITH OR WITHOUT REINJECTION), OTHER STOKER (SPECIFY TYPE), HAND FIRED, AUTOMATIC, OR OTHER TYPE (DESCRIBE BELOW IN COMMENTS).

PRIMARY FUEL TYPE Diesel Fuel Oil #2	STANDBY FUEL TYPE(S)(SPECIFY) N/A						
FUELS USED	ANNUAL USAGE	HOURLY USAGE		%	%	BTU VALUE	(FOR APC ONLY)
		DESIGN	AVERAGE	SULFUR	ASH	OF FUEL	SCC CODE
NATURAL GAS:	10 ⁶ CUFT	CUFT	CUFT	1111	1 1		
	10 ³ GAL	GAL	GAL.	ļ	1 /		
#2 FUEL OIL: Primary	2.08	4.15	4.15	0.0015	1 1	137,000 Btu/gal	
#5 FUEL OIL:	10 ³ GAL	GAL.	GAL.		7 /		
#6 FUEL OIL:	10 ³ GAL	GAL	GAL.		1 1		
COAL:	TONS	LBS	LBS		1 /		
WOOD:	TONS	LBS	LBS	1111	/ / /		
LIQUID PROPANE:	10 ³ GAL	GAL	GAL	1111			
OTHER (.SPECIFY TYPE & UNITS.):					, ,		

11. IF WOOD IS USED AS A FUEL, SPECIFY TYPES AND ESTIMATE PERCENT BY WEIGHT OF BARK N/A

12.	IF WOOD IS USED WITH OTHER FUELS, SPECIFY PERCENT BY WEIGHT OF WOOD CHARGED TO THE BURNER.
N/A	

13. COMMENTS

Source is limited to 500 operating hours per year and will operate as an emergency engine.

14. SIGNATURE Michele	In Black	6/5/2013
	1 1 / 0	

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EMISSION POINT DESCRIPTION

APC 22

ATTACH TO THE PERMI	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	IC/IV.		· · · · · · · · · · · · · · · · · · ·	111	ADC COMPA	NY POINT NO
1. ORGANIZATION NAME New Cingular Wireless PCS, LI		Mobility				ALC CUMILA	OL FORT NO
			Lerourer on the	11.197 1.117 1.257	FOR	A DO PROUES	ICE NO
2. EMISSION SOURCE NO GEN I	. (FROM APPL	JCATION)	FLOW DIAGRAM PO	INT NUMBER	/ / / APC	APC SEQUE	NCE NO
3. LOCATION: →	LATITUDE 35°45'39.21"		LONGITUDE -84°37'15.77"	UTM VERTICAL		UTM HORIZONTAL	
4. BRIEF EMISSION POINT DESCRIPTION (ATTACH			A SKETCH IF APPROP		DISTANCE TO NEAREST PROPERTY LINE (FT)		
Emergency use diesel generator							
COMPLETE LINES 5 AND 6	IF DIFFERENT	FROM THAT	ON THE PROCESS OR	FUEL BURNING SOU	JRCE DESCRIPTIO	N (APC 21)	
5. NORMAL OPERATION:	HOURS/DA	Y	DAYS/WEEK	WEEK/YEAR		DAYS/YEAR	
500 hours / year →	←		←	←		-	
6. PERCENT ANNUAL THROUGHPUT: →	DECFEB		MARCH-MAY	JUNE-AUG.		SEPTNOV.	
7. STACK OR EMISSION	BEIGHT AB		DIAMETER	TEMPERATURE	% OF TIME	DIRECTION	
POINT DATA:	GRADE (FT)		(FT)	(°F)	OVER 125°F	(UP, DOWN OR HORIZONTAL)	
>	7		0.25	930	100	110101201171	<i>(L)</i>
DATA AT EXIT	FLOW (ACTUAL FT ¹ /MIN.)		VELOCITY	MOISTURE (GRAINS/FT¹)		MOISTURE	
CONDITIONS:			(FT/SEC)		(PERCENT)		
>	534		181.3				
DATA AT STANDARD CONDITIONS:	FLOW (DRY STD. FT ¹ /MIN)		VELOCITY MOISTURE (FT/SEC) (GRAINS/FT')			MOISTURE (PERCENT)	
}				<u>.</u>			
8. AIR CONTAMINANTS		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TUAL EMISSIONS				
	EMISSIONS AVERAGE	(LBS/HR) MAXIMUM	CONCENTRATION	AVG. (TONS/YR)	EMISSIONS* EST. METHOD	CONTROL DEVICES*	CONTROL EFFICIENCY%
PARTICULATES	0.06	0.06	8.82 E-04 lb/kW-hr	0.02	5 (Tier 3)	None	N/A
SULFUR DIOXIDE	1.13E-03	1 13E-03	1.21 E-05 lb/hp-hr	2.82E-04	3	None	N/A
CARBON MONOXIDE	0.77	0.77	1.10 E-02 lb/kW-hr	019	5 (Tier 3)	None	N/A
ORGANIC COMPOUNDS	0.02	0.02	2.65 E-04 lb/kW-hr	4.63E-03	5 (Vendor)	None	N/A
NITROGEN OXIDES	0.73	0.73	1.04 E-02 lb/kW-hr	0.18	5 (Tier 3)	None	N/A
FLUORIDES							
OTHER(SPECIFY) GHG as CO2e	126	126	1-80 lb/kW-hr	31 48	5 (Vendor)	None	N/A
OTHER(SPECIFY) Single HAP	7 68E-04	7 68E-04	8 26 E-06 lb/hp-hr	1 92 E-04	3	None	N/A
OTHER(SPECIFY) Total BAPs	2.47E-03	2.47E-03	2.65 E-05 lb/hp-hr	6.17 E-04	3	None	N/A

9,	CHECK TYPES OF MONITORING AND RECORDING INSTRUMENTS THAT ARE ATTA-	CHED:
	OPACITY MONITOR (), SO2 MONITOR (), NOX MONITOR (), OTHER (SPECIFY IN	N COMMENTS) ()

10. COMMENTS

Emissions calculated based on the generator operating at full capacity for 500 hours per year, maximum engine rating, and Tier 3 emission factors for CO, NO_X, and PM. Vendor factors used for VOC and GHG. AP-42 factor from Section 3.4 used for SO₂ along with 15 ppm S content.

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- * REFER TO THE BACK OF THE PERMIT APPLICATION FORM FOR ESTIMATION METHOD AND CONTROL DEVICE CODES
- ** EXIT GAS PARTICULATE CONCENTRATION UNITS: PROCESS GRAINS/DRY STANDARD FT3 (70°F); WOOD FIRED BOILERS GRAINS/DRY STANDARD FT3 (70°F); ALL OTHER BOILERS LBS/MILLION BTU HEAT INPUT.
- *** EXIT GAS SULFUR DIOXIDE CONCENTRATIONS UNITS: PROCESS PPM BY VOLUME, DRY BASES, BOILERS LBS/MILLION BTU HEAT INPUT.

183 Raby Hollow Road, Kingston (Roane County)